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(54) **PLANETARY GEAR TRAIN FOR AUTOMATIC  
TRANSMISSION**

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(57) Abstract:

**PURPOSE:** To miniaturize a transmission and facilitate the increase of the number of speed change steps, by connecting an input shaft to the 1st ring gear directly or through the 5th clutch, and connecting an output shaft to the 3rd pinion carrier directly.

**CONSTITUTION:** The 1st pinion carrier PC1 is connected to the 2nd pinion carrier PC2 through the 3rd clutch C3, and made fixable at a case through the 2nd one way clutch OWC2 and the 2nd brake B2 that are mutually in parallel. And the 3rd ring gear R3 is connected to the 1st pinion carrier PC1 through the 3rd one way clutch OWC3 and the 4th clutch C4 that are mutually in parallel, and the 2nd ring gear R2 is connected to the 3rd pinion carrier PC3, and the 3rd sun gear S3 is fixed at the case or made fixable at the case through the 3rd brake B3. And in addition, an input shaft 1 is connected to the 1st ring gear R1 directly or through the 5th clutch that is not shown in the drawing, and an output shaft O is connected directly to the 3rd pinion carrier PC3.

